TO:

CERTIFICATE OF **CORRECTION BRANCH**

ATTN:

MICHELLE WILLIAMS

APP#:

09/476,092

PAT#:

7,209,725

FROM:

HUNTER WILDER

ATTORNEYS AT LAW

Signe Kessier Hunter Wilder Electrical Group Legal Assistant Sterne, Kessier, Goldstein & Fox P.L.L.C. 1100 New York Avenue, NW Washington, DC 20005 Direct: 202.772.8642 Fax: 202.371.2540

Main: 202.371.2600 Email: hwilder@skgf.com www.skgf.com

NOTE:

After the Certificate of Correction was originally filed, someone (Lamont) informed Mike Lee that the Information Disclosure Statements (IDSs) were needed that supported the Certificate of Correction. Attached are all of the IDSs that were filed at the PTO along with a more descriptive Request for Certificate of Correction. The PTO/SB/44 form did not change, but the Request form did. I am new in this field, so I am not sure what is allowed, but if this can replace the old Request for Certificate of Correction, that would be appreciated. I will be out of the office from Tuesday (7/3) noon till Sunday and will return to the office on Monday (7/9). If you have to contact me, then you could reach me on my cell at 803-316-5508. Thanks, and have a great week!



Robert Greene Sterne Jorge A. Goldstree Jorge A. Goldstree Jorge A. Goldstree G. Curtin Michele A. Cimbala Michael B. Ray Robert E. Sokohl Eric K. Steffe Michael Q. Lee John M. Covert Schoth C. Millonig Donald J. Featherstone Timothy J. Shea, Jr Michael V. Messinger Judith U. Kim Jeffrey T. Hebey Eldora L. Ellison

Mark Fox Evens
Vincent L. Capuan
Elizabeth J. Haanes
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Glenn J. Perry
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Cynthia M. Bouchez Ilmothy A. Doyle Gaby L. Longsworth Lori A. Gordon Laura A. Vogel Bryan S. Wade Bashir M. S. Arli Il Shannon A. Carroll Anbar F. Kali Michelle K. Holoubek Marsha A. Rose Scott A. Schaller Lei Zhou Young Tang Christopher J. Walsh W. Blake Coblentz' James J. Pohl John T. Haran Mark W. Rygiel Michael R. Malek*
Carla Ji-Eun Kim
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Alexandra K. Pechhold
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Registered Patent Agents • Karen R. Markowicz Matthew J. Dowd Katrina Yujian Pel Quach Julie A. Helder Mita Mukherjee Scott M. Woodhouse Peter A. Socarras Jeffrey K. Mills Officiale L. Letting Lori Brandes Steven C. Oppenheimer Aaron S. Lukas Gaurav Asthana

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*Admitted only in Maryland *Admitted only in Virginia •Practice Limited to Federal Agencies

May 31, 2007

WRITER'S DIRECT NUMBER: (202) 772-8674 INTERNET ADDRESS: MLEE@SKOF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Art Unit 2686

Attn: Certificate of Correction Branch

Re:

U.S. Utility Patent

Patent No. 7,209,725; Issued: April 24, 2007

or: Analog Zero IF FM Decoder and Embodiments Thereof, Such As The

Family Radio Service

Inventors: Sorrells et al. Our Ref: 1744.0250001

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Request for Certificate of Correction Under 37 C.F.R. § 1.322; and
- 2. Form PTO/SB/44 (45 sheets).

The above-listed documents are filed electronically through EFS-Web.

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

TERME KESSUER, GOLDSTEIN & FOX P.L.L.C.

Mighael Q. Lee

Attorney for Patentees Registration No. 35,239

MQL/ahw

Enclosures Sterne, Ressier, Goldstein & Fox P.L.C. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.2600 f 202.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent of:

Confirmation No.: 7304

Sorrells et al.

Art Unit: 2686

Patent. No.: 7,209,725

Examiner: Naghmeh Mehrpour

Issued: April 24, 2007

Atty. Docket: 1744.0250001

For: Analog Zero IF FM Decoder and Embodiments Thereof, Such As

The Family Radio Service

Request for Certificate of Correction Under 37 C.F.R. § 1.322

Attn: Certificate of Correction Branch

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

It is hereby requested that a Certificate of Correction under 37 C.F.R. § 1.322 be issued for the above-captioned United States Patent. This Certificate of Correction is being requested due to mistakes which appear in the printed patent. These mistakes were made by the U.S. Patent and Trademark Office.

Specifically, the printed patent contains the following errors for which a Certificate of Correction is respectfully requested:

Title page, item [56], References Cited section, please add the cited references in the attached PTO/SB/44 form. These references were filed at the PTO in the following manner: Information Disclosure Statement filed January 11, 2002, Third Supplemental Information Disclosure Statement filed July 11, 2003, Fourth Supplemental Information

Disclosure Statement filed September 3, 2003, Sixth Supplemental Information Disclosure Statement filed July 13, 2006, Eighth Supplemental Information Disclosure Statement filed May 7, 2005, Ninth Supplemental Information Disclosure Statement filed October 19, 2005, Eleventh Supplemental Information Disclosure Statement filed May 8, 2006, Thirteenth Supplemental Information Disclosure Statement filed November 7, 2006, and Notice of References Cited dated July 25, 2006. All references contained in the previously stated Information Disclosure Statements were visibly initialed by the Examiner but missing from the issued patent except for some references contained in the Ninth and Third Supplemental Information Disclosure Statement. The foreign and non-patent literature documents on the second page of the Third Supplemental Information Disclosure Statement were filed but not included in the issued patent because they were neither signed or crossed out. It was believed that the Examiner overlooked these references and that they should be included in the issued patent. It was ambiguous from the file wrapper whether the Examiner even considered the Ninth Supplemental Information Disclosure Statement.

Remarks

The above-noted corrections do not involve such changes in the patent as would constitute new matter or would require reexamination.

A completed Form PTO/SB/44 accompanies this request, with the above-noted corrections printed thereon. Accordingly, a Certificate of Correction is believed proper and issuance thereof is respectfully requested.

The Commissioner is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

TERNE, RESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael & Lee

Attorney for Patentees Registration No. 35,239

Date: 640

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

DOC#679792_1.DOC

Page 1 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section

Please add the following references:

2,057,613	10/1936	Gardner
2,241,078	05/1941	Vreeland
2,270,385	01/1942	Skillman
2,283,575	05/1942	Roberts
2,358,152	09/1944	Earp
2,410,350	10/1946	Labin et al.
2,451,430	10/1948	Barone
2,462,069	02/1949	Chatterjea et al.
2,462,181	02/1949	Grosselfinger
2,472,798	06/1949	Fredendall
2,497,859	02/1950	Boughtwood et al.
2,499,279	02/1950	Peterson
2,530,824	11/1950	King
2,802,208	08/1957	Hobbs
2,985,875	05/1961	Grisdale et al.
3,023,309	02/1962	Foulkes
3,069,679	12/1962	Sweeney et al.
3,104,393	09/1963	Vogelman
3,114,106	12/1963	McManus
3,118,117	01/1964	King et al.
3,226,643	12/1965	McNair
3,258,694	06/1966	Shepherd
3,383,598	05/1968	Sanders
3,384,822	05/1968	Miyagi
3,454,718	07/1969	Perreault
3,523,291	08/1970	Pierret

MAILING ADDRESS OF SENDER (Please do not use customer number below):

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 2 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

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Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 1)

Please add the following references:

3,548,342	12/1970	Maxey
3,555,428	01/1971	Perreault
3,614,627	10/1971	Runyan et al.
3,617,892	11/1971	Hawley et al.
3,617,898	11/1971	Janning, Jr.
3,621,402	11/1971	Gardner
3,623,160	11/1971	Giles et al.
3,626,417	12/1971	Gilbert
3,629,696	12/1971	Bartelink
3,641,442	02/1972	Boucher
3,662,268	05/1972	Gans et al.
3,689,841	09/1972	Bello et al.
3,694,754	09/1972	Baltzer
3,714,577	01/1973	Hayes
3,716,730	02/1973	Cerny, Jr.
3,717,844	02/1973	Barret et al.
3,719,903	03/1973	Goodson
3,735,048	05/1973	Tomsa et al.
3,737,778	06/1973	Van Gerwen et al.
3,739,282	06/1973	Bruch et al.
3,764,921	10/1973	Huard
3,806,811	04/1974	Thompson
3,868,601	02/1975	MacAfee
3,940,697	02/1976	Morgan
3,949,300	04/1976	Sadler
3,967,202	06/1976	Batz

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 3 of 45

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April 24, 2007

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<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 2)

Please add the following references:

3,980,945	09/1976	Bickford
3,987,280	10/1976	Bauer
3,991,277	11/1976	Hirata
4,003,002	01/1977	Snijders et al.
4,013,966	03/1977	Campbell
4,016,366	04/1977	Kurata
4,017,798	04/1977	Gordy et al.
4,019,140	04/1977	Swerdlow
4,032,847	06/1977	Unkauf
4,035,732	07/1977	Lohrmann
4,045,740	08/1977	Baker
4,047,121	09/1977	Campbell
4,051,475	09/1977	Campbell
4,066,841	01/1978	Young
4,066,919	01/1978	Huntington
4,080,573	03/1978	Howell
4,081,748	03/1978	Batz
4,115,737	09/1978	Hongu et al.
4,130,765	12/1978	Arakelian et al.
4,130,806	12/1978	Van Gerwen et al.
4,142,155	02/1979	Adachi
4,143,322	03/1979	Shimamura
4,158,149	06/1979	Otofuji
4,170,764	10/1979	Salz et al.
4,204,171	05/1980	Sutphin, Jr.
4,210,872	07/1980	Gregorian

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Atty. Dkt. No. 1744.0250001

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 4 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

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<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 3)

Please add the following references:

4,241,451	12/1980	Maixner et al.
4,245,355	01/1981	Pascoe et al.
4,253,066	02/1981	Fisher et al.
4,253,067	02/1981	Caples et al.
4,253,069	02/1981	Nossek
4,286,283	08/1981	Clemens
4,308,614	12/1981	Fisher et al.
4,320,361	03/1982	Kikkert
4,320,536	03/1982	Dietrich
4,334,324	06/1982	Hoover
4,346,477	08/1982	Gordy
4,355,401	10/1982	Ikoma et al.
4,356,558	10/1982	Owen et al.
4,360,867	11/1982	Gonda
4,363,132	12/1982	Collin
4,365,217	12/1982	Berger et al.
4,369,522	01/1983	Cerny, Jr. et al.
4,370,572	01/1983	Cosand et al.
4,380,828	04/1983	Moon
4,389,579	06/1983	Stein
4,392,255	07/1983	Del Giudice
4,393,395	07/1983	Hacke et al.
4,430,629	02/1984	Betzl et al.
4,439,787	03/1984	Mogi et al.
4,446,438	05/1984	Chang et al.
4,456,990	06/1984	Fisher et al.

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1100 New York Avenue, NW Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

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PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

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<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 4)

Please add the following references:

4,472,785	09/1984	Kasuga
4,479,226	10/1984	Prabhu et al.
4,481,490	11/1984	Huntley
4,481,642	11/1984	Hanson
4,484,143	11/1984	French et al.
4,485,488	11/1984	Houdart
4,504,803	03/1985	Lee et al.
4,517,519	05/1985	Mukaiyama
4,517,520	05/1985	Ogawa
4,518,935	05/1985	van Roermund
4,521,892	06/1985	Vance et al.
4,562,414	12/1985	Linder et al.
4,577,157	03/1986	Reed
4,583,239	04/1986	Vance
4,591,736	05/1986	Hirao et al.
4,591,930	05/1986	Baumeister
4,563,773	07/1986	Dixon, Jr. et al.
4,602,220	07/1986	Kurihara
4,603,300	07/1986	Welles, II et al.
4,612,464	09/1986	Ishikawa et al.
4,612,518	09/1986	Gans et al.
4,616,191	10/1986	Galani et al.
4,621,217	11/1986	Saxe et al.
4,628,517	12/1986	Schwarz et al.
4,634,998	01/1987	Crawford
4,648,021	03/1987	Alberkrack

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Page <u>6</u> of <u>45</u>

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

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<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 5)

Please add the following references:

4,651,034	03/1987	Sato
4,653,117	03/1987	Heck
4,675,882	06/1987	Lillie et al.
4,688,253	08/1987	Gumm
4,716,376	12/1987	Daudelin
4,716,388	12/1987	Jacobs
4,718,113	01/1988	Rother et al.
4,726,041	02/1988	Prohaska et al.
4,733,403	03/1988	Simone
4,734,591	03/1988	Ichitsubo
4,737,969	04/1988	Steel et al.
4,740,675	04/1988	Brosnan et al.
4,740,792	04/1988	Sagey et al.
4,743,858	05/1988	Everard
4,745,463	05/1988	Lu
4,751,468	06/1988	Agoston
4,757,538	07/1988	Zink
4,768,187	08/1988	Marshall
4,769,612	09/1988	Tamakoshi et al.
4,785,463	11/1988	Janc et al.
4,789,837	12/1988	Ridgers
4,791,584	12/1988	Greivenkamp, Jr.
4,801,823	01/1989	Yokoyama
4,806,790	02/1989	Sone
4,810,904	03/1989	Crawford
4,810,976	03/1989	Cowley et al.

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1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

Page 7 of 45

PATENT NO: 7,209,725

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<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 6)

Please add the following references:

4,811,362	03/1989	Yester, Jr. et al.
4,811,422	03/1989	Kahn
4,814,649	03/1989	Young
4,816,704	03/1989	Fiori, Jr.
4,819,252	04/1989	Christopher
4,833,445	05/1989	Buchele
4,841,265	06/1989	Watanabe et al.
4,845,389	07/1989	Pyndiah et al.
4,855,894	08/1989	Asahi et al.
4,862,121	08/1989	Hochschild et al.
4,866,441	09/1989	Conway et al.
4,868,654	09/1989	Juri et al.
4,870,659	09/1989	Oishi et al.
4,871,987	10/1989	Kawase
4,885,587	12/1989	Wiegand et al.
4,885,671	12/1989	Peil
4,885,756	12/1989	Fontanes et al.
4,888,557	12/1989	Puckette, IV et al.
4,890,302	12/1989	Muilwijk
4,893,316	01/1990	Janc et al.
4,893,341	01/1990	Gehring
4,894,766	01/1990	De Agro
4,896,152	01/1990	Tiemann
4,902,979	02/1990	Puckette, IV
4,908,579	03/1990	Tawfik et al.
4,910,752	03/1990	Yester, Jr. et al.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

Page <u>8</u> of <u>45</u>

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

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Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 7)

Please add the following references:

4,914,405	04/1990	Wells
4,920,510	04/1990	Senderowicz et al.
4,922,452	05/1990	Larsen et al.
4,931,716	06/1990	Jovanovic et al.
4,931,921	06/1990	Anderson
4,943,974	07/1990	Motamedi
4,944,025	07/1990	Gehring et al.
4,955,079	09/1990	Connerney et al.
4,965,467	10/1990	Bilterijst
4,967,160	10/1990	Quievy et al.
4,970,703	11/1990	Hariharan et al.
4,982,353	01/1991	Jacob et al.
4,984,077	01/1991	Uchida
4,995,055	02/1991	Weinberger et al.
5,003,621	03/1991	Gailus
5,005,169	04/1991	Bronder et al.
5,006,810	04/1991	Popescu
5,010,585	04/1991	Garcia
5,014,130	05/1991	Heister et al.
5,014,304	05/1991	Nicollini et al.
5,015,963	05/1991	Sutton
5,017,924	05/1991	Guiberteau et al.
5,020,149	05/1991	Hemmie
5,020,154	05/1991	Zierhut
5,052,050	09/1991	Collier et al.
5,063,387	11/1991	Mower

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 9 of 45

PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 8)

Please add the following references:

-	10000 000 0110 10		2 0110 00.
	5,065,409	11/1991	Hughes et al.
	5,083,050	01/1992	Vasile
	5,091,921	02/1992	Minami
	5,095,533	03/1992	Loper et al.
	5,095,536	03/1992	Loper
	5,111,152	05/1992	Makino
	5,113,094	05/1992	Grace et al.
	5,113,129	05/1992	Hughes
	5,115,409	05/1992	Stepp
	5,122,765	06/1992	Pataut
	5,124,592	06/1992	Hagino
	5,126,682	06/1992	Weinberg et al.
	5,131,014	07/1992	White
	5,136,267	08/1992	Cabot
	5,140,699	08/1992	Kozak
	5,140,705	08/1992	Kosuga
	5,150,124	09/1992	Moore et al.
	5,151,661	09/1992	Caldwell et al.
	5,159,710	10/1992	Cusdin
	5,164,985	11/1992	Nysen et al.
	5,170,414	12/1992	Silvian
	5,172,019	12/1992	Naylor et al.
	5,172,070	12/1992	Hiraiwa et al.
	5,191,459	03/1993	Thompson et al.
	5,204,642	04/1993	Ashgar et al.
	5,212,827	05/1993	Meszko et al.
	5,214,787	05/1993	Karkota, Jr.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

Page <u>10</u> of <u>45</u>

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DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 9)

Please add the following references:

5,220,583	06/1993	Solomon
5,220,680	06/1993	Lee
5,222,144	06/1993	Whikehart
5,230,097	07/1993	Currie et al.
5,239,686	08/1993	Downey
5,239,687	08/1993	Chen
5,241,561	08/1993	Barnard
5,249,203	09/1993	Loper
5,251,218	10/1993	Stone et al.
5,251,232	10/1993	Nonami
5,260,970	11/1993	Henry et al.
5,263,194	11/1993	Ragan
5,263,196	11/1993	Jasper
5,263,198	11/1993	Geddes et al.
5,267,023	11/1993	Kawasaki
5,278,826	01/1994	Murphy et al.
5,282,023	01/1994	Scarpa
5,287,516	02/1994	Schaub
5,293,398	03/1994	Hamao et al.
5,303,417	04/1994	Laws
5,307,517	04/1994	Rich
5,315,583	05/1994	Murphy et al.
5,319,799	06/1994	Morita
5,321,852	06/1994	Seong
5,325,204	06/1994	Scarpa
5,337,014	08/1994	Najle et al.
5,339,054	08/1994	Taguchi

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 11 of 45

PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

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<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 10)

Please add the following references:

339,459	08/1994	Schiltz et al.
353,306	10/1994	Yamamoto
355,114	10/1994	Sutterlin et al.
361,408	11/1994	Watanabe et al.
369,404	11/1994	Galton
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PATENT NO: 7,209,725

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April 24, 2007

INVENTOR(S): Sorrells et al.

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Page 13 of 45

PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

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PATENT NO: 7,209,725

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DATED: April 24, 2007

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PATENT NO: 7,209,725

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PATENT NO: 7,209,725

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PATENT NO: 7,209,725

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INVENTOR(S): Sorrells et al.

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PATENT NO: 7,209,725

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PATENT NO: 7,209,725

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INVENTOR(S): Sorrells et al.

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DATED: April 24, 2007.

INVENTOR(S): Sorrells et al.

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Page <u>34</u> of <u>45</u>

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

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MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450,

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page <u>43</u> of <u>45</u>

PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

<u>Title Page, Item [56], OTHER PUBLICATIONS Section</u> (Continued from page 42)

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Atty. Dkt. No. 1744.0250001

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page <u>44</u> of <u>45</u>

PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

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Page <u>45</u> of <u>45</u>

PATENT NO: 7,209,725

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INVENTOR(S): Sorrells et al.

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Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 44)

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT
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ATTY. DOCKET NO. 1744.0250001 APPLICATION NO. 09/476,092

APPLICANT Sorrells et al.

FILING DATE January 3, 2000 GROUP 2682

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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ATTY. DOCKET NO. APPLICATION NO. 1744.0250001 09/476,092 APPLICANT Sorrells et al. FILING DATE GROUP

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FORM PTO-14 INFORMATION DISCLOSURE STATEMENTS

ATTY. DOCKET NO. APPLICATION NO. 1744.0250001 09/476,092

APPLICANT Sorrells et al. GROUP

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FORM PTO-1444

INFORMATION DISCLOSURE STATEMENT
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ATTY. DOCKET NO.
1744.0250001

APPLICATION NO.
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ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

APPLICANT

Sorrells et al.

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NM	AP	<u>5</u>	Application t	o Micr	owave Comi	munic	t Statistical Analysis of C ations," Fifth Internation 5. 198-201 (March 30 -	al Confere	nce on A		
Nm	AQ	<u>5</u>		ions,"	Sixth Interna	tiona	stics of Precipitation Rat Conference on Antenna 4-7, 1989).				
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JAN 1 1 2002 FORM PTO-14492 INFORMATION DISCLOSURE

ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

APPLICANT

Sorrells et al. FILING DATE

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January 3, 2000 2682 **U.S. PATENT DOCUMENTS** ÉXAMINER INITIAL **DOCUMENT** DATE NAME **CLASS** SUB-**FILING DATE NUMBER CLASS** AA6 4,013,966 363 03/1977 Campbell 325 ∞L AB6 4,019,140 04/1977 Swerdlow 322 65 r/ W MA AC₆ 4,035,732 07/1977 Lohrmann 325 446 AD₆ 4,047,121 09/1977 76 Campbell 331 M AE6 01/1978 4,066,841 Young 178 66 R NM AF6 4,066,919 01/1978 **Huntington** 307 353 NM AG6 4,081,748 03/1978 Batz 325 56 ľΜ AH6 4,130,765 12/1978 Arakelian et al. 307 220 R Al6 4,130,806 12/1978 Van Gerwen et al. 325 487 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER COUNTRY > DATE **CLASS** SUB-**TRANSLATION** CLASS AJ6 EP 0 785 635 A1 07/1997 EP **H04B** 1/713 No AK6 EP 0 795 978 A2 09/1997 ĘΡ H04L 5/06 N/A NΜ AL6 EP 0 837 565 A1 04/1998 ΕP H04B 1/69 N/A AM6 EP 0 862 274 A1 09/1998 EP **H03M** 1/06 N/A OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Catalan, C. and Vilar, E., "Approach for satellite slant path remote sensing," Electronics Letters, IEE, Vol. 34, AN <u>6</u> No. 12, pp. 1238-1240 (June 11, 1998). Chan, P. et al., "A Highly Linear 1-GHz CMOS Downconversion Mixer," European Solid State Circuits AO <u>6</u> Conference, IEEE Communication Society, pp. 210-213 (September 22-24, 1993). Copy of Declaration of Michael J. Bultman filed in patent application Ser. No. 09/176,022, which is directed ΑP <u>6</u> to related subject matter. Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to AQ 6 related subject matter. Copy of Declaration of Alex Holtz filed in patent application Ser. No. 09/176,022, which is directed to AR <u>6</u> related subject matter. **EXAMINER**

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FORM PTO-1449 INFORMATION DISCLOSURE ETATEMENT ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

APPLICANT

Sorrells et al.

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NA	AA7	4,1	42,155	02/	1979	Add	ichi		325	; ;	47	4		
-NM	AB7	4,1	70,764	10/	979	Salz	et al.		332		17	3		1
NM.	AC7	4,2	04,171	05/1	1980	Sut	ohin, Jr.		328	3	167	0000	三 T	ń
NM	AD7	4,2	10,872	07/1	1980	Gre	gorian		330)	9	8	Z (
UM	AE7	4,2	45,355	01/1	1981	Pas	coe et al.		455		326	0	7	T
NM	AF7	4,2	53,066	02/1	1981	Fish	er et al.		329		50	enter 2600	2	Z
WM	AG7	4,2	53,069	02/1	1981	Nos	sek		330)	107	1,2	200	7
NM	AH7	4,3	4,308,614 12/19		1981	Fish	er et al.		370		119	9		
NM	AI7	4,3	4,320,361 03/19		/1982 k		cert		332		16 R			
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NM	AJ7	EP (EP 0 874 499 A2 10		10/1998		EP	· -	H04	L	25/06		-	1//
ЮM	AK7	FR 2	2 743 231 A1		07/1997		FR		H04	В	7/12			No
DM	AL7	GB	2 161 344 A		01/1986		GB		H04	В	7/12			1/A
NM	AM7	GB	2 215 945 A		09/1989		GB		H04	L	27/00		N	1/A
			OTHER	(Incl	uding Auth	or, T	itle, Date, Pertinent	Pages, e	tc.)			··!		_
	AN	<u>z</u>	related subje	ct ma	n of Charley	 , D. M	ooke filed in patent ap						-, <u></u>	l to
	АР	Z	Copy of Decl application S	Copy of Declaration of Jeffrey L. Parker and David F. Sorrells, with attachment Exhibit 1, filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.										
	AQ	Z	Dewey, R.J. a Implemented	Dewey, R.J. and Collier, C.J., "Multi-Mode Radio Receiver," Electronics Division Colloquium on Dig Implemented Radios, IEE, pp. 3/1-3/5 (October 18, 1985).								on Digita	lly	
	AR	Z	DIALOG File 1990, (1 Pag	347 (. e).	JAPIO) Engli	sh La	nguage Patent Abstrac	t for JP 2-	-276	351, р	ublished No	vember	13,	
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DIALOG File 348 (European Patents) English Language Patent Abstract for EP 35166 A1, published February AQ 8 18, 1981, (2 Pages). "DSO takes sampling rate to 1 Ghz," Electronic Engineering, Morgan Grampian Publishers, Vol. 59, No. 723, AR 8 pp. 77 and 79 (March 1987).

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ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

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Sorrells et al.

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MM	AA9	4,39	2,255	07/1	983	Del	Giudice		455	328	
NW	AB9	4,43	30,629	02/1	984	Betz	et al.		333	165	2
NM	AC9	4,44	16,438	05/1	984	Cha	ng et al.		328	165 A 127 CA 119	40
NM	AD9	4,45	6,990	06/1	1984 Fisher et al.			370	119		
UM	AE9	4,47	2,785	09/1	984 Kasuga				364	718	A TON
NM	AF9	4,47	79,226	10/1	984	Prabhu et al.			375	1	Charles Co.
NM	AG9	4,48	4,481,490 11/1984						332	41	% %
UM	AH9	4,48	31,642	11/1	984	Han	son		375	9	8
NM	Al9	4,48	35,488	11/1	984	Hou	dart		455	327	
10.			4,405,400				ENT DOCUMENTS		1.00		<u> </u>
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NM	AJ9	WO 94/05087 A1			03/1994		РСТ		нозм	1/00	N/
NM	AK9	wo	96/02977 A1		02/1996		PCT		H04B	1/26	· N/
NM	AL9	wo	96/08078 A1		03/1996		PCT		H03D	3/00	N/
MM.	AM9	wo	96/39750 [°] A1		12/1996		РСТ	-	Н04В	1/26	N/
			OTHER	(Incl	uding Auth	or, Ti	tle, Date, Pertinent I	Pages, e	etc.)	_	
	AN	<u>9</u>	Ratio," IEEE J	D. and	l of Solid-Sta	ite Cin	sion FET-Less Sample- cuits, IEEE, Vol. SC-13, monic Sampling for th tions on Instrumentatio	, No. 6,	pp. 864-87	3 (December	1978).
	AP	2	Faulkner, N.I Microwave C M-10 and M	scillat	ors," CPEM	monic 82 Dig	: Sampling for the Accu lest: Conference on Pre	urate Me ecision E	easurement lectromagn	of Frequency etic Measuren	Stability of nents, IEEE, pp.
	AQ	<u>9</u>	Faulkner, N.I Counter Tect 82 (1984).	D. and inique	l Vilar, E., "T s," CPEM 84	ime D I Dige:	omain Analysis of Fred of Conference on Precis	quency S sion Elec	Stability Usi Stromagnetic	ng Non-Zero I c Measuremen	Dead-Time its, IEEE, pp. 81
	AR	2	Amplitude Sc	intilla	tions and Ro	in Att	ization of the Channel enuation," <i>IEEE Trans</i> a 965 (November 1990)	ctions o	ty of a Sate n Communi	llite Link in the cations, IEEE C	e Presence of Communication
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ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

APPLICANT

Sorrells et al.

FILING DATE
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NM	AA10	4,50	4,803	03/1	985	Lee e	t al.	332	31 R	
NM	AB10	4,51	7,519	05/1	985	Muka	ziyama	329	اد 126	32
NM	AC10	4,51	7,520	05/1	985	Oga	wa	329	145	50
NM	AD10	4,51	8,935	05/1	985	van F	Roermund	333	173	JAN TOOL
NM	AE10		1,892	06/1	985	Vanc	e et al.	375	88	2
MM	AF10	4,56	3,773	07/1	986	Dixo	n, Jr. et al.	455	327	SE CO
MUI	AG10		7,157	03/1	986	Reed		329	50	18 O
NM	AH10		3,239	04/1		Vanc	e	375	94	6
NW	Al10	4,59	· · · · · · · · · · · · · · · · · · ·					307	267	
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XAMINER NITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
Nm	AJ10	WO 97/38490 A1		10/1997		PCT	нозк	7/00	N/	
NM	AK10	WO 98/00953 A1		01/1998		PCT	H04L	27/26	N/	
Din	AL10	wo	/O 98/24201 A1		06/1998		PCT	H04H	1/00	N/
Nm	AM10	EP 0	099 265 A1		01/1984		EP	H03D	3/04	N/
			OTHER	R (Incl	uding Auth	or, Ti	lle, Date, Pertinent P	ages, etc.)		
	AN ·	<u>10</u>					Signaling Filter with Q ! (December 1984).	Reduction, IE	EE JOURNAL OF SOIL	a-siale Circuis,
	I AO	10					ime statistics of rain at			
	AO	<u>10</u>					time statistics of rain attaction, IEE, Vol. 135, Pt.			
		10 10	H: Microwav	es, An	tennas and I	Propag "Millim		. H, No. 6, pp. (387-390 (Decem	ber 1988).
	AP		Gibbins, C.J. IEE, Vol. 134 Gilchrist, B. 6	and C	Chadha, R., , No.2 , pp.	"Millim 169-1	ation, IEE, Vol. 135, Pt.	. H, No. 6, pp. 3 through hydro y synthesizers,"	387-390 (Decem	ber 1988).
	AP	<u>10</u>	Gibbins, C.J. IEE, Vol. 134 Gilchrist, B. e Publishing, V	and (C, Pt. H	Chadha, R., ', No.2 , pp. 'Sampling h, No. 1, pp.	"Millim 169-1 ikes pe 93-94	nation, IEE, Vol. 135, Pt. metre-wave propagation 73 (April 1987).	through hydro y synthesizers," (4).	carbon flame," II Microwaves & RI	EE Proceedings, Hayden Ghz," Radio

FORM PTO-1449 INFORMATION DISCLOSURE

ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

APPLICANT Sorrells et al.

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NW.	AA12	4,651	,034	03/1	987	Sato		307		556	e T
NM	AB12	4,675	5,882	06/1	987	Lillie	et al.	375		80	JAN T
MM	AC12	4,688		08/1	987	Gum	<u>m</u>	381		7	号星(
NW	AD12	4,716		12/1		Dave		329		107	2 - T
N/M	AE12	4,716		12/1		Jaco	· · · · · · · · · · · · · · · · · · ·	333		173	
N (X)	AF12	1	3,113	01/1			er et al.	455		209	100
N/M	AG12 AH12	4,726		02/1 03/1			aska et al.	375		91	 8 -
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aly	AJ12 DE 197 35 798 C1			07/1998		DE	H04	IL	27/00	Ye (See AP5)	
WM	AK12				09/1998		PCT	H03	L	7/08	N/
NM	AL12			03/1993	,	EP	Н03	L	7/089	N/	
Man	AM12	EP 0 7	795 955 A2&/ 	43	09/1997		EP	H03	D	13/00	N/
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	AN .		Hafdallah, H. (February 4, 1			<b>AESFE</b>	「Sampler," Electronics L	Letters, IEE, V	′ol. 24, N	No. 3, pp.	151-153
	AO	12	Herben, M.H. Ghz," Electror	A.J., " nics Le	'Amplitude a tters, IEE, Vo	ınd Ph ol. 18,	ase Scintillation Measu No. 7, pp. 287-289 (A	rements on 8 pril 1, 1982)	3-2 km L	ine-Of-Si	ght Path at 30
	AP .	<u> 12</u>	Hewitt, A. et d Measurement 1985)	al., "A s for 1	n 18 Ghz W Telecommun	idebai icatior	nd LOS Multipath Exper Transmission Systems -	iment," <i>Interi</i> MTTS 85, IE	national E, pp. 11	Conference 12-116 (N	ce on lovember 27-28,
	AQ .	<u>12</u>	Hewitt, A. et a Measurement 1136-1143 (t	s," IEE	E Transactio	ssive A	pproach to the Identific Communications, IEEE	cation of Mul Communicat	ltipath Ro tions Soc	ay Parame iety, Vol.	aters from Field 37, No. 11, pp.
!	AR .	<u>12</u>	Hewitt, A. and Measurement No. 7, pp. 78	Tech	niques," <i>IEEE</i>	: Tran	ing on LOS Microwave sactions on Communica	Links: Classi tions, IEEE C	cal and S ommuni	Spread-Sp cations Sc	pectrum ociety, Vol. 36,
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JAN 1 1 2002 FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

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EXAMINER INITIAL		DOC	CUMENT NBER	DATE		NAM	NE	CL	ASS	SUB- CLASS	FILING DATE		
Von	AA13	4,73	7,969	04/1	988	Steel	et al.	37	5	67 🔏			
NIM	AB13	4,74	3,858	05/1	988	Ever	ard	33	0	10 3	量型		
Alpha	AC13	4,74	5,463	05/1	988	Lu		35	8	23	夏〇		
MM	AD13	4,75	1,468	06/1	988	Agos	ton	32	8	133	1 , 1		
Non	AE13	4,75	7,538	07/1	988	Zink		38	1	7	PZ		
NM	AF13	4,76	8,187	08/1	988	Mars	hall	37	0	69.1	4 2002 4 2002		
Nm	AG13	4,76	9,612	09/1	988	Tame	akoshi et al.	32	8	167	100		
Nm	AH13	4,78	5,463	11/1	988	Janc et al.			5	1	8		
·	Al13	4,79	1,584	12/1	988	Greivenkamp, Jr. 364 525							
					FOREIGN	PATI	ENT DOCUMENTS						
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Nm	AJ13	EP 0	817 369 A2&	A3	01/1998		EP	НО	3D	7/00	N/A		
NM	AK13												
MM	AL13	wo	99/23755 A1		05/1999		PCT	НО	3D	7/16	N/A		
NM	AM13	JP 56	5-114451		09/1981		JP	но	4B	7/02	No		
			OTHER	(Incl	uding Auth	or, Ti	tle, Date, Pertinent P	ages, etc.)					
	AN	<u>13</u>	Hospitalier, I IEE, Vol. VII,				rding and Observing Ro	apidly Varyi	ng Phene	omena," Scie	nce Abstracts,		
	AO	<u>13</u>	Detection," T	he Insi	titution of En	ginee	Demodulating High Free rs Australia Vibration ar 8-20, 1990)	quency Resc nd Noise Co	onance S nference	ignals for Be e, Institution	aring Fault of Engineers,		
	AP .	<u>13</u>		t. of E			nd-Hold Amplifier for F/ puter Engineering, Univ						
	AQ 13 Hung, H-L. A. et al., "Characterization of Microwave Integrated Circuits Using An Optical Phase-Locking and Sampling System," IEEE MTT-S Digest, IEEE, pp. 507-510 (1991).												
	Hurst, P.J., "Shifting the Frequency Response of Switched-Capacitor Filters by Nonuniform Sampling," IEEE Transactions on Circuits and Systems, IEEE Circuits and Systems Society, Vol. 38, No. 1, pp. 12-19 (January 1991).												
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**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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**EXAMINER** 

FORM PTO-144 TATEMENT INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

APPLICANT

Sorrells et al.

FILING DATE
January 3, 2000

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W/M	AA16	4,89	6,152	01/1	990	Tiem	ann	340	853	
A ION	AB16	4,90	2,979	02/1	990	Puck	ette, IV	329	343	
MM	AC16	4,90	8,579	03/1	990	Tawf	ik et al.	328	167	Technology 1
HAA	AD16		0,752	03/1		Yeste	er, Jr. et al.	375	75	官し代
XIM	AE16		4,405	04/1		Wells		331	25	鲁星(
WAY	AF16		0,510	04/1		<del></del>	erowicz et al.	364	825	2 1
Non	AG16		2,452	05/1		Larse	on et al.	365	45	Geme 707
MM	AH16		1,921	06/1		Ande	rson	363	163	6 0
NM	Al16		4,025	07/1		<del>i                                      </del>	ing et al.	455	207	0
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		16 16	1988).	al., "Ir	mmunication	ns Con	e Variant Structure of A ference & Exhibition, IE gorithm to Identify Mult ber 24, 1987).	EEE, pp. 1707-17	711 (Novembe	r 28 - December 1
	AP	<u>16</u>		on Ins	trumentatio	n and .	Dead-Time on the Esti Measurement, IEEE Ins			
	Liechti, C.A., "Performance of Dual-gate GaAs MESFET's as Gain-Controlled Low-Noise Amplifiers and High Speed Modulators," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE Microwave Theory and Techniques Society, Vol. MTT-23, No. 6, pp. 461-469 (June 1975).									
	AR	<u>16</u>	Linnenbrink, Science, IEEE	T.E. e	t al., "A One ear and Plas	Giga: ma Sc	sample Per Second Tra iences Society, Vol. NS	nsient Recorder, -26, No. 4, pp. 4	" IEEE Transacti 4443-4449 (Au	ions on Nuclear ugust 1979).
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Page 18 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0250001 09/476,092 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE FILING DATE January 3, 2000 2682 **Ú.S. PATENT DOCUMENTS EXAMINER CLASS** FILING DATE DOCUMENT SUB-INITIAL DATE NAME NUMBER **CLASS** 167 328 AA18 5,006,810 04/1991 Popescu **AB18** 5,010,585 04/1991 Garcia 455 118 AC18 5,014,304 05/1991 Nicollini et al. 379 399 5,015,963 05/1991 Sutton 329 361 AD18 Guiberteau et al. 342 195 AE18 5,017,924 05/1991 5,020,149 05/1991 455 325 **AF18** Hemmie Zierhut 455 608 AG18 5,020,154 05/1991 5,052,050 09/1991 Collier et al. 455 296 AH18 91 Al18 5,065,409 11/1991 Hughes et al. 375 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION **CLASS** AJ18 Yes No AK18 Yes No Yes AL18 No **AM18** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Mersland, R.A. et al., "130 Ghz GaAs monolithic integrated circult sampling head," Appl. Phys. Lett., 18 American Institute of Physics, Vol. 55, No. 6, pp. 592-594 (August 7, 1989). Martin, K. and Sedra, A.S., "Switched-Capacitor Building Blocks for Adaptive Systems," IEEE Transactions on AO 18 Circuits and Systems, IEEE Circuits and Systems Society, Vol. CAS-28, No. 6, pp. 576-584 (June 1981). Marzaño, F.S. and d'Auria, G., "Model-based Prediction of Amplitude Scintillation variance due to Clear-Air Tropospheric Turbulence on Earth-Satellite Microwave Links," IEEE Transactions on Antennas and <u>18</u> Propagation, IEEE Antennas and Propagation Society, Vol. 46, No. 10, pp. 1506-1518 (October 1998). M<del>atricciani, E., "Prediction-of-fade durations due</del> to rain in satellite communication systems," *Radio Science*, American Geophysical Union, Vol. 32, No. 3, pp. 935-941-(May-June 1997).

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Limited, Vol. XXIV, No. 296, pp. 436-441 (October 1952).

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

McQueen, 1.G., "The Monitoring of High-Speed-Waveforms," <u>Electronic Eng</u>ineering, Morgan Brothers

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(December 16, 1996).

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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Electronics Letters, IEE, Vol. 21, No. 17, pp. 771-772 (August 15, 1985).

Ortgies, G., "Experimental Parameters Affecting Amplitude Scintillation Measurements on Satellite Links,"

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	AQ .	<u>21</u>	Poulton, K. et al., "A 1-Ghz 6-bit ADC System," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-22, No. 6, pp. 962-969 (December 1987).										
	AR	<u>21</u>	Press Release (April 6, 1994		cervision, Inc	c. Ann	ounces Fiscal 1993 Re	sults," Li	ppert/Heilst	horn and As	isociates, 2 Pages		
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Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994).

Press Release, "Parkervision, Inc. Announces New Cameraman System II™ At Infocomm Trade Show,"

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ATTY. DOCKET NO. APPLICATION NO. 09/476,092 1744.0250001 FORM PTO-1449 JAN 1-1 2002 APPLICANT Sorrells et al. GROUP FILING DATE 2682 January 3, 2000 **U.S. PATENT DOCUMENTS EXAMINER DOCUMENT** NAME **CLASS** SUB-**FILING DATE** INITIAL DATE **CLASS** NUMBER **AA23** 5,293,398 03/1994 Hamao et al. 375 455 314 04/1994 AB23 5,303,417 Laws 306 455 AC23 5,307,517 04/1994 Rich 5,315,583 05/1994 Murphy et al. 370 18 AD23 455 182.1 AE23 5,321,852 06/1994 Seong 348 607 AF23 5,325,204 06/1994 Scarpa 08/1994 Najle et al. 324 613 AG23 5,337,014 332 100 08/1994 Taguchi AH23 5,339,054 5,339,459 08/1994 Schiltz et al. 455 333 AI23 **FOREIGN PATENT DOCUMENTS EXAMINER** CLASS SUB-TRANSLATION **DOCUMENT NUMBER** COUNTRY INITIAL DATE CLASS Yes AJ23 Νo Yes AK23 Νo AL23 Yes No Yes **AM23** Νo OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision, Inc. Announces Appointments to its National Sales Force," Lippert/Heilshorn AN 23 and Associates, 2 Pages (June 17, 1994). Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," AO <u>23</u> Lippert/Heilshorn and Associates, 3 Pages (August 9, 1994). Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," AP <u>23</u> Lippert/Heilshorn and Associates, 3 Pages (October 28, 1994). Press Release, "Parkervision, Inc. Announces First Significant Dealer Sale of Its Cameraman® System II," AQ <u>23</u> Lippert/Heilshorn and Associates, 2 Pages (November 7, 1994). Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Lippert/Heilshorn and AR <u>23</u> Associates, 2 Pages (March 1, 1995). **EXAMINER** 

INFORMATION DISCLOSURE STATEMENT

APPLICATION NO. ATTY. DOCKET NO. 1744.0250001 09/476,092 APPLICANT Sorrells et al.

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Headquarters, 2 Pages (June 5, 1996). EXAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Press Release, "ParkerVision's New Studio Product Wins Award," Parkervision Marketing and Manufacturing

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FORM PTO-1449 INFORMATION DISCLOSURE

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Marketing and Manufacturing Headquarters, 3 Pages (July 31, 1997).

Press Release, "ParkerVision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision

ATTY. DOCKET NO. APPLICATION NO. 1744.0250001 09/476,092 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 2682 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL **DOCUMENT** DATE NAME **CLASS** SUB-**FILING DATE** NUMBER CLASS 5,555,453 **AA30** 09/1996 Kajimoto et al. 455 266 **AB30** 5,557,641 09/1996 Weinberg 375 295 AC30 5,557,642 09/1996 Williams 375 316 AD30 5,579,341 11/1996 Smith et al. 375 267 5,579,347 11/1996 Lindquist et al. 375 346 AE30 AF30 5,584,068 12/1996 Mohindra 455 324 AG30 5,592,131 01/1997 Labreche et al. 332 103 **AH30** 5,602,847 02/1997 Pagano et al. 370 484 **AI30** 02/1997 5,602,868 Wilson 375 219 FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL **DOCUMENT NUMBER** DATE COUNTRY **CLASS** SUB-TRANSLATION CLASS **AJ30** Yes No **AK30** Yes No AL30 Yes No **AM30** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision, Inc. Announces Private Placement of 990,000 Shares," Parkervision Marketing AN 30 and Manufacturing Headquarters, 2 Pages (September 8, 1997). Press Release, "Wal-Mart Chooses Parkervision for Broadcast Production," Parkervision Marketing and AO 30 Manufacturing Headquarters, 2 Pages (October 24, 1997). Press Release, "Parkervision, Inc. Announces Third Quarter Financial Results," Parkervision Marketing and AP 30 Manufacturing Headquarters, 3 Pages (October 30, 1997). Press Release, "ParkerVision Announces Breakthrough in Wireless Radio Frequency Technology," Parkervision AQ 30 Marketing and Manufacturing Headquarters, 3 Pages (December 10, 1997). Press Release, "Parkervision, Inc. Announces the Appointment of Joseph F. Skovron to the Position of Vice AR 30 President, Licensing - Wireless Technologies," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 9, 1998). **EXAMINER DATE CONSIDERED** 

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**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Press Release, "Parkervision Announces First Quarter Financial Results," Parkervision Marketing and

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	АР	<u>32</u>	Press Release Marketing ar	e, "Parl nd Mai	cervision An oufacturing	inound Headd	es Second Quarter and S Juarters, 4 Pages (July 30	Six Month ), 1998).	Financio	al Results," Po	arkervision
	AQ	<u>32</u>	Press Release Marketing ar	e, "Parl nd Mai	cervision An	nound Headd	es Third Quarter and Nic Juarters, 3 Pages (Octobe	ne Month er 30, 199	Financia 8).	ıl Results," Po	ırkervision
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NM Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 2)," Electronic Engineering, Morgan AO 34 Brothers Limited, Vol. 31, No. 374, pp. 204-212 (April 1959). Rein, H.M. and Zahn, M., "Subnanosecond-Pulse Generator with Variable Pulsewidth Using Avalanche ΑP <u>34</u> Transistors," Electronics Letters, IEE, Vol. 11, No. 1, pp. 21-23 (January 9, 1975). Riad, S.M. and Nahman, N.S., "Modeling of the Feed-through Wideband (DC to 12.4 Ghz) Sampling-Head," AQ <u>34</u> IEEE MTT-S International Microwave Symposium Digest, IEEE, pp. 267-269 (June 27-29, 1978). Rizzoli, V. et al., "Computer-Aided Noise Analysis of MESFET and HEMT Mixers," IEEE Transactions on AR <u>34</u> Microwave Theory and Techniques, IEEE, Vol. 37, No. 9, pp. 1401-1410 (September 1989).

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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ATTY. DOCKET NO. APPLICATION NO. 1744.0250001 09/476,092 FORM PTO-144 APPLICANT Sorrells et al. INFORMATION DISCLOSURE FILING DATE **GROUP** January 3, 2000 2682 **U.S. PATENT DOCUMENTS EXAMINER DOCUMENT** INITIAL DATE NAME **CLASS** SUB-**FILING DATE NUMBER** CLASS AA35 RE 35,829 06/1998 Sanderford, Jr. 375 200 **AB35** 5,760,645 06/1998 329 304 Comte et al. AC35 5,764,087 06/1998 Clark 327 105 AD35 5,767,726 06/1998 Wang 327 356 AE35 5,768,118 06/1998 Faulk et al. 72 363 AF35 5,771,442 06/1998 Wang et al. 455 93 725 AG35 5,777,692 07/1998 Ghosh 348 AH35 5,777,771 07/1998 Smith 359 180 **AI35** 5,786,844 07/1998 Rogers et al. 348 6 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL **DOCUMENT NUMBER** DATE COUNTRY CLASS SUB-TRANSLATION CLASS **AJ35** Yes No **AK35** Yes No AL35 Yes No **AM35** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Rowe, H.E., Signals and Noise in Communication Systems, D. Van Nostrand Company, Inc., Princeton, New ΑN <u>35</u> Jersey, including, for example, Chapter V, Pulse Modulation Systems (1965). Rücker, F. and Dintelmann, F., "Effect of Antenna Size on OTS Signal Scintillations and Their Seasonal AO <u>35</u> Dependence," Electronics Letters, IEE, Vol. 19, No. 24, pp. 1032-1034 (November 24, 1983). Russell, R. and Hoare, L., "Millimeter Wave Phase Locked Oscillators," Military Microwaves '78 Conference AP <u>35</u> Proceedings, Microwave Exhibitions and Publishers, pp. 238-242 (October 25-27, 1978). Sabel, L.P., "A DSP Implementation of a Robust Flexible Receiver/Demultiplexer for Broadcast Data Satellite AQ 35 Communications," The Institution of Engineers Australia Communications Conference, Institution of Engineers, Australia, pp. 218-223 (October 16-18, 1990). Salous, S., "IF digital generation of FMCW waveforms for wideband channel characterization," IEE AR <u>35</u> Proceedings-I, IEE, Vol. 139, No. 3, pp. 281-288 (June 1992). **EXAMINER** DATE CONSIDERED

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APPLICATION NO. 09/476,092

APPLICANT

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	АР	36 Saul, P.H ESSCIRC	I., "A GaA 79, IEE, p	s MESFET Sop. 5-7 (197	ample 9).	and Hold Switch," Fifth	European Solid St	ate Circuits C	onference-
	AQ '	36 Shen, D. State Cir	H. et al., ' cuits, IEEE	"A 900-MH2 Solid-State	Z RF Fro Circui	ont-End with Integrated is Council, Vol. 31, No	d Discrete-Time Fil 12, pp. 1945-19	tering," <i>IEEE</i> 54 (Decembo	Journal of Solid- er 1996).
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ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

APPLICANT

Sorrells et al.

FILING DATE
January 3, 2000

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	A	AR	<u>37</u>	Spillard, C. e Conditions," pp. 451-455	Sixth I	nternational	Confe	ric Transhorizon Propage rrence on Antennas and P	ation Unde Propagation	r Differin	ng Meteorol 39) Part 2: P	ogical ropagation	, IEE,
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Page 41 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0250001 09/476,092 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE FILING DATE GROUP A TRADE January 3, 2000 2682 **U.S. PATENT DOCUMENTS** EXAMINER INITIAL **DOCUMENT** DATE NAME **CLASS** SUB-**FILING DATE** NUMBER **CLASS AA41** 5,515,014 05/1996 **Troutman** 332 178 AB41 5,563,550 10/1996 Toth 329 347 AC41 5,574,755 11/1996 Persico 375 295 AD41 5,604,592 02/1997 Kotidis et al. 356 357 AE41 5,638,396 06/1997 92 Klimek 372 AF41 5,675,392 10/1997 Nayebi et al. 348 584 AG41 5,694,096 12/1997 Ushiroku et al. 333 195 **AH41** 5,757,870 05/1998 Miya et al. 375 367 AI41 5,768,323 06/1998 375 Kroeger et al. 355 FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL **DOCUMENT NUMBER** DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ41 Yes No AK41 Yes No AL41 Yes No **AM41** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) NA Tomassetti, Q., "An Unusual Microwave Mixer," 16th European Microwave Conference, Microwave Exhibitions AN 41 and Publishers, pp. 754-759 (September 8-12, 1986). Tortoli, P. et al., "Bidirectional Doppler Signal Analysis Based on a Single RF Sampling Channel," IEEE AO <u>41</u> Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, Vol. 41, No. 1, pp. 1-3 (January 1984). Tsividis, Y. and Antognetti, P. (Ed.), Design of MOS VLSI Circuits for Telecommunications, Prentice-Hall, p.

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ATTY. DOCKET NO. 1744.0250001

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	AC44	5,953,642	09	/1999	Feld	dtkeller et al.	45	5	195.1	
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	AO	44 Cont		Dynamics	s," IEEE Tro	s and Modeling of Time ansactions on Commun 1991).				
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

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ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

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APPLICATION NO. 09/476,092

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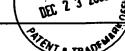
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FILING DATE January 3, 2000 GROUP 2685

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APPLICANT Sorrells et al.		
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		AC57	6,600,911 B1	07/2003	Morishige et al.		_	
		AD57	5,179,731	01/1993	Tränkle et al.			
		AE57	5,589,793	12/1996	Kassapian		-	
		AF57	4,510,467	04/1985	Chang et al.			
		AG57	4,772,853	09/1988	Hart			
		AH57	4,972,436	11/1990	Halim et al.			
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NM	AA58	5,422,909	06/1995	Love et al.	_		
	AB58	5,440,311	08/1995	Gallagher et al.			
	AC58	5,926,513	07/1999	Suominen et al.	-		
	AD58	5,995,030	11/1999	Cabler	_		
	AE58	6,047,026	04/2000	Chao et al.			
	AF58	6,049,573	04/2000	Song			
	AG58	6,076,015	06/2000	Hartley et al.			
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	AB59	5,058,107	10/1991	Stone et al.	_		
	AC59	5,757,858	05/1998	Black et al.			
	AD59	6,531,979 B1	03/2003	Hynes			
	AE59	6,018,262	01/2000	Noro et al.			
	AF59	4,761,798	08/1988	Griswold, Jr. et al.		RECE	IVED
	AG59	5,982,315	11/1999	Bazarjani et al.		MAY I 8	2004
	AH59	6,459,721 B1	10/2002	Mochizuki et al.	Te	chaology (	enter 2600
1	AI59	6,151,354	11/2000	Abbey			
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NM	AA60	6,169,733 B1	01/2001	Lee			
Ì	AB60	6,363,262 B1	03/2002	McNicol			
	AC60	6,697,603 B1	02/2004	Lovinggood et al.			
	AD60	5,282,222	01/1994	Fattouche et al.			
	AE60	5,949,827	09/1999	DeLuca et al.			
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•		AD61	4,13	2,952	01/1979		Hongu et al.	N	0 <del>V 2 4 2</del> 0	04
	1	AE61	5,26	0,973	11/1993		Watanabe			
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NM	AA62	4,441,080	04/1984	Saari			
	AB62	4,873,492	10/1989	Myer			
	AC62	5,697,074	12/1997	Makikallio et al.			
·	AD62	5,784,689	07/1998	Kobayashi	RECE	IVED	
	AE62	6,335,656 B1	01/2002	Goldfarb et al:	NOV 2	2004	
	AF62		02/2004	Ueno et al.	- Technology C	enter 2600	
	AG62	5,636,140	06/1997	Lee et al.			
	AH62	6,366,622 B1	04/2002	Brown et al.			
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	AB63	5,760,629	06/1998	Urabe et al.			
	AC63	6,084,465	07/2000	Dasgupta			
	AD63	6,204,789 B1	03/2001	Nagata	RECE	VED	
	AE63	6,064,054	05/2000	Waczynski et al.	NOV 2		
	AF63	5,218,562	06/1993	Basehore et al.	· · · · · · · · · · · · · · · · · · ·	·	
	AG63	5,239,496	08/1993	Vancraeynest	Technology C	HILDI EUU	
	AH63	5,896,304	04/1999	Tiemann et al.			
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	AE64	6,509,777 B2	01/2003	Razavi et al.			
	AF64	5,982,329	11/1999	Pittman et al.			
	AG64	6,208,636 B1	03/2001	Tawil et al.			
	AH64	3,614,630	10/1971	Rorden			
	A164	6,836,650 B2	12/2004	Sorrells et al.			
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Page 2 of 3 ATTY. DOCKET NO. 1744.0250001 APPLICATION NO. 09/476,092

FIRST NAMED INVENTOR David F. Sorrells

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	AH66	6,057,714	05/2000	Andrys et al.				
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AA67   6,512,544 B1   01/2003   Merrill et al.						· · · · · · · · · · · · · · · · · · ·		Page 3 of 3
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Page 1 of 3 APPLICATION NO. ATTY, DOCKET NO. **FORM PTO-1449** 1744.0250001 09/476,092 FIRST NAMED INVENTOR PENTH SUPPLEMENTAL David F. Sorrells INFORMATION DISCLOSURE STATEMENT FILING DATE **ART UNIT** January 3, 2000 2686 U.S. PATENT DOCUMENTS **EXAMINER** DOC. DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS FILING DATE INITIAL REF. 6,882,194 B2 04/2005 **AA68** Belot et al. **AB68** 6,892,062 B2 05/2005 Lee et al. 6,917,796 B2 07/2005 AC68 Setty et al. **AD68** 6,920,311 B2 07/2005 Rofougaran et al. 5,062,122 10/1991 AE68 Pham et al. AF68 01/2001 Ward 6,182,011 B1 **AG68** 6,639,939 B1 10/2003 Naden et al. **AH68** 07/1998 5,787,125 Mittel AI68 5,878,088 03/1999 Knutson et al. **FOREIGN PATENT DOCUMENTS** DOC. **EXAMINER DOCUMENT NUMBER** DATE COUNTRY CLASS SUB-CLASS TRANSLATION INITIAL REF. AJ No Yes AK No Yes AL No Yes AM No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) **EXAMINER** DOC. CITATION INITIAL REF. AN AO AP AQ AR DATE CONSIDERED EXAMINER EXAMINER: Initial if reference considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to Applicant. not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

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APPLICATION NO. 09/476,092

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**ELEVENTH SUPPLEMENTAL** 

David F. Sorrells

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		AE71	7,010,286 B2	03	/2006	So	mells et al.	<u> </u>					
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		AG71	5,131,014	07	/1992	W	hite	_					<u> </u>
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<del>JUL 1 3 200</del> Page 1 of 5 APPLICATION NO. ATTY, DOCKET NO. 09/476,092 1744.0250001 FIRST NAMED INVENTOR SIXTH SUPPLEMENTAL David F. Sorrells INFORMATION DISCLOSURE STATEMENT FILING DATE **ART UNIT** January 3, 2000 2617 U.S. PATENT DOCUMENTS **EXAMINER** DOC. SUB-CLASS FILING DATE CLASS DATE NAME DOCUMENT NUMBER INITIAL REF. AA AB AC AD AE AF NM AG73 6,591,310 B1 07/2003 Johnson MM Shaeffer et al. 11/2005 **AH73** 6,963,626 B1 MK 03/1989 Kahn A173 4,811,422 FOREIGN PATENT DOCUMENTS EXAMINER DOC. CLASS SUB-CLASS **TRANSLATION** COUNTRY . DOCUMENT NUMBER DATE INITIAL REF. Yes AJ No Yes AK No Yes AL No NM No 10/1986 JP JP 61-232706 AM25 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) DOC. EXAMINER CITATION INITIAL REF. AN61. A061 NM English-language Abstract of Japanese Patent Publication No. JP 61-232708, data supplied by the espacenet, AP61 1 page (October 17, 1986 - Date of publication of application). NM English-language Abstract of Japanese Patent Publication No. JP 9-171399, data supplied by the espacenet, AQ61 1 page (June 30, 1997 - Date of publication of application). English-language Abstract of Japanese Patent Publication No. JP 10-41860, data supplied by the espacenet, NM AR61 1 page (February 13, 1998 - Date of publication of application). **EXAMINER** /Naghmeh Mehrpour/ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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